## What is claimed is:

1. A compound of formula I, a pharmaceutically acceptable salt thereof, diasteromers, enantiomers, or mixtures thereof:

$$R^2$$
 $R^3$ 
 $R^5$ 
 $R^6$ 
 $R^6$ 
 $R^4$ 
 $R^7$ 
 $R^1$ 
 $R^1$ 

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wherein

R<sup>1</sup> is hydrogen, C<sub>1-6</sub>alkyl-O-C(=O)-, C<sub>1-6</sub>alkyl, substituted C<sub>1-6</sub>alkyl,

C<sub>3-6</sub>cycloalkyl, and substituted C<sub>3-6</sub>cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl or optionally substituted heteroarylalkyl;

n is 0, 1 or 2; m is 0, 1, or 2;

 $R^2$ ,  $R^3$  and  $R^4$  are, independently, selected from hydrogen,  $C_{1\text{-}6}$ alkyl, substituted  $C_{1\text{-}6}$ alkyl,  $C_{3\text{-}6}$ cycloalkyl, and substituted  $C_{3\text{-}6}$ cycloalkyl;

 $R^5$  and  $R^6$  are, independently, selected from -R, -NO<sub>2</sub>, -OR, -Cl, -Br, -I, -F, -CF<sub>3</sub>, -C(=O)R, -C(=O)OH, -NH<sub>2</sub>, -SH, -NHR, -NR<sub>2</sub>, -SR, -SO<sub>3</sub>H, -SO<sub>2</sub>R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR<sub>2</sub>, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or  $C_{1-6}$ alkyl; and

R<sup>7</sup> is selected from C<sub>1-6</sub>alkyl, substituted C<sub>1-6</sub>alkyl, C<sub>3-6</sub>cycloalkyl, and substituted C<sub>3-6</sub>cycloalkyl, optionally substituted C<sub>6-10</sub>aryl, optionally substituted C<sub>3-9</sub>heteroaryl, optionally substituted C<sub>6-10</sub>aryl-C<sub>1-6</sub>alkyl, and optionally substituted C<sub>3-9</sub>heteroaryl-C<sub>1-6</sub>alkyl; or R<sup>4</sup> and R<sup>7</sup> together with nitrogen connected thereto form a portion of a C<sub>3-6</sub>heterocycle ring.

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 A compound according to claim 1, wherein R<sup>1</sup> is hydrogen, C<sub>1-6</sub>alkyl-O-C(=O)-, C<sub>1-6</sub>alkyl, substituted C<sub>1-6</sub>alkyl, C<sub>3-6</sub>cycloalkyl, and substituted C<sub>3-6</sub>cycloalkyl;

 $R^2$  and  $R^3$  are, independently,  $C_{1\text{--}3}$  alkyl or halogenated  $C_{1\text{--}3}$  alkyl;

5 R<sup>4</sup> is hydrogen;

 $R^7$  is selected from optionally substituted  $C_{6\text{-}10}$ aryl, optionally substituted  $C_{3\text{-}9}$ heteroaryl, optionally substituted  $C_{6\text{-}10}$ aryl- $C_{1\text{-}6}$ alkyl, and optionally substituted  $C_{3\text{-}9}$ heteroaryl- $C_{1\text{-}6}$ alkyl; and

n and m are 0.

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- 3. A compound according to claim 1, wherein  $R^1$  is selected from hydrogen,  $C_{1-6}$ alkyl-O-C(=O)-;  $R^2$  and  $R^3$  are ethyl;  $R^4$  is hydrogen;
- 15  $R^7$  is  $C_{6-10}$ aryl or  $C_{6-10}$ aryl $C_{1-3}$ alkyl; and n and m are 0.
  - 4. A compound according to claim 1, wherein R<sup>1</sup> is hydrogen;
- 20 R<sup>2</sup> and R<sup>3</sup> are ethyl;
  R<sup>4</sup> is hydrogen;
  R<sup>7</sup> is phenyl, benzyl or phenethyl; and n and m are 0.
- 25 5. A compound selected from:

4-[[3-(anilinocarbonyl)phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;

4-[{3-[(benzylamino)carbonyl]phenyl}(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;

 $\begin{tabular}{l} 4-[(3-\{[(2-phenethyl)amino]carbonyl\}phenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide; \end{tabular}$ 

and pharmaceutically acceptable salts thereof.

- 5 6. A compound according to any one of claims 1-5 for use as a medicament.
  - 7. The use of a compound according to any one of claims 1-5 in the manufacture of a medicament for the therapy of pain, anxiety or functional gastrointestinal disorders.

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- 8. A pharmaceutical composition comprising a compound according to any one of claims 1-5 and a pharmaceutically acceptable carrier.
- A method for the therapy of pain in a warm-blooded animal, comprising the
   step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to any one of claims 1-5.
  - 10. A method for the therapy of functional gastrointestinal disorders in a warm-blooded animal, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to any one of claims 1-5.
    - 11. A process for preparing a compound of formula I, comprising:

$$R^2$$
 $R^3$ 
 $R^5$ 
 $R^6$ 
 $R^6$ 
 $R^4$ 
 $R^7$ 
 $R^7$ 

## reacting a compound of formula II with HNR<sup>4</sup>R<sup>7</sup>:

$$R^2$$
 $R^5$ 
 $R^6$ 
 $R^6$ 

5 wherein

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 $R^1$  is hydrogen,  $C_{1-6}$ alkyl-O-C(=O)-,  $C_{1-6}$ alkyl, substituted  $C_{1-6}$ alkyl,  $C_{3-6}$ cycloalkyl, and substituted  $C_{3-6}$ cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted arylalkyl or optionally substituted heteroarylalkyl;

n is 0, 1 or 2; m is 0, 1, or 2;

X is selected from –OH, -OR $^8$ , -O-C(=O)-R $^8$ , -Cl, -Br and -I, wherein R $^8$  is  $C_{1\text{-}6}$ alkyl;

 $R^2$ ,  $R^3$  and  $R^4$  are, independently, selected from hydrogen,  $C_{1-6}$ alkyl, substituted  $C_{1-6}$ alkyl,  $C_{3-6}$ cycloalkyl, and substituted  $C_{3-6}$ cycloalkyl;

R<sup>5</sup> and R<sup>6</sup> are, independently, selected from -R, -NO<sub>2</sub>, -OR, -Cl, -Br, -I, -F, -CF<sub>3</sub>, -C(=O)R, -C(=O)OH, -NH<sub>2</sub>, -SH, -NHR, -NR<sub>2</sub>, -SR, -SO<sub>3</sub>H, -SO<sub>2</sub>R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR<sub>2</sub>, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C<sub>1-6</sub>alkyl; and

R<sup>7</sup> is C<sub>1-6</sub>alkyl, substituted C<sub>1-6</sub>alkyl, C<sub>3-6</sub>cycloalkyl, and substituted
20 C<sub>3-6</sub>cycloalkyl, optionally substituted C<sub>6-10</sub>aryl, optionally substituted C<sub>3-9</sub>heteroaryl, optionally substituted C<sub>6-10</sub>aryl-C<sub>1-6</sub>alkyl, and optionally substituted C<sub>3-9</sub>heteroaryl-C<sub>1-6</sub>alkyl; or R<sup>4</sup> and R<sup>7</sup> together with nitrogen connected thereto form a portion of a C<sub>3-6</sub>heterocycle ring.

25 12. A process as claimed in claim 11,

wherein X is -OH;

 $R^1$  is  $C_{1-6}$ alkyl-O-C(=0)-;

R<sup>2</sup> and R<sup>3</sup> are ethyl;

R<sup>4</sup> is hydrogen or methyl;

R<sup>7</sup> is phenyl, benzyl, phenethyl, cyclopentyl, cyclohexyl, cyclohexylmethyl, 2-chlorobenzyl, 2-fluorobenzyl, 1-(4-methylphenyl)ethyl, 4-methyl-1,3-thiazol-2-yl, 2,6-dimethylpyridin-3-yl, isobutyl, or 1-ethylpropyl; or R<sup>4</sup> and R<sup>7</sup> together form 1,5-pentylene or 1,4-butylene; and

n and m are 0.

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13. A compound of formula IA, a pharmaceutically acceptable salt thereof, diastereomers thereof, enantiomers thereof, or mixtures thereof:

15 wherein

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R<sup>1</sup> is selected from hydrogen, and C<sub>1-6</sub>alkyl-O-C(=O)-;

 $R^4$  is selected from hydrogen,  $C_{1\text{-}6}$ alkyl,  $C_{2\text{-}6}$ alkenyl,  $C_{2\text{-}6}$ alkynyl, and  $C_{3\text{-}6}$ cycloalkyl, wherein said  $C_{1\text{-}6}$ alkyl,  $C_{2\text{-}6}$ alkenyl,  $C_{2\text{-}6}$ alkynyl, and  $C_{3\text{-}6}$ cycloalkyl are optionally substituted with one or more groups selected from -R, -NO<sub>2</sub>, -OR, -Cl, -Br, -I, -F, -CF<sub>3</sub>, -C(=O)R, -C(=O)OH, -NH<sub>2</sub>, -SH, -NHR, -NR<sub>2</sub>, -SR, -SO<sub>3</sub>H, -SO<sub>2</sub>R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR<sub>2</sub>, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or  $C_{1\text{-}6}$ alkyl;

 $R^7$  is selected from  $C_{1\text{-}6}$ alkyl,  $C_{2\text{-}6}$ alkenyl,  $C_{2\text{-}6}$ alkynyl,  $C_{3\text{-}6}$ cycloalkyl,  $C_{3\text{-}6}$ cycloalkyl- $C_{1\text{-}3}$ alkyl,  $C_{6\text{-}10}$ aryl,  $C_{6\text{-}10}$ aryl- $C_{1\text{-}3}$ alkyl,  $C_{3\text{-}6}$ heteroaryl, and  $C_{3\text{-}6}$ heteroaryl- $C_{1\text{-}3}$ alkyl, wherein said  $C_{1\text{-}6}$ alkyl,  $C_{2\text{-}6}$ alkenyl,  $C_{2\text{-}6}$ alkynyl,  $C_{3\text{-}6}$ cycloalkyl,

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 $C_{3-6}$ cycloalkyl- $C_{1-3}$ alkyl,  $C_{6-10}$ aryl,  $C_{6-10}$ aryl- $C_{1-3}$ alkyl,  $C_{3-6}$ heteroaryl, and  $C_{3-6}$ heteroaryl- $C_{1-3}$ alkyl are optionally substituted with one or more groups selected from -R, -NO<sub>2</sub>, -OR, -Cl, -Br, -I, -F, -CF<sub>3</sub>, -C(=O)R, -C(=O)OH, -NH<sub>2</sub>, -SH, -NHR, -NR<sub>2</sub>, -SR, -SO<sub>3</sub>H, -SO<sub>2</sub>R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR<sub>2</sub>,

- 5 -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C<sub>1-6</sub>alkyl; or R<sup>4</sup> and R<sup>7</sup> together with nitrogen connected thereto form a portion of a C<sub>3-6</sub>heterocycle ring.
- 14. A compound according to claim 13, wherein R<sup>1</sup> is hydrogen;

  R<sup>4</sup> is selected from hydrogen and C<sub>1-6</sub>alkyl; and

  R<sup>7</sup> is selected from C<sub>3-6</sub>alkyl, C<sub>3-6</sub>cycloalkyl, C<sub>3-6</sub>cycloalkyl-C<sub>1-3</sub>alkyl, phenyl,

  phenyl-C<sub>1-3</sub>alkyl, and C<sub>3-6</sub>heteroaryl, wherein said R<sup>7</sup> is further optionally substituted with one or more groups selected from C<sub>1-6</sub>alkyl, halogenated C<sub>1-6</sub>alkyl, -NO<sub>2</sub>, -CF<sub>3</sub>,

  C<sub>1-6</sub>alkoxy, chloro, fluoro, bromo, and iodo.
- 15. A compound according to claim 13, wherein R¹ is hydrogen;
   R⁴ is selected from hydrogen and methyl; and
   R³ is selected from C₄₀alkyl, phenyl, benzyl, 2-phenylethyl, 1-phenylethyl,
   cyclopentyl, thiazolyl, pyridinyl and cyclohexyl, wherein R³ is further optionally
   substituted with one or more groups selected from methyl, methoxy, chloro, and
   fluoro.
- 16. A compound according to claim 13, wherein R<sup>1</sup> is hydrogen; and R<sup>4</sup> and R<sup>7</sup> are directly linked to form a divalent C<sub>3-6</sub>alkylene, wherein said C<sub>3-6</sub>alkylene is optionally substituted with one or more groups selected from methyl, methoxy, chloro, and fluoro.
  - 17. A compound according to claim 13, wherein R<sup>1</sup> is hydrogen; and R<sup>4</sup> and R<sup>7</sup> are directly linked to form 1,5-pentylene or 1,4-butylene.
  - 18. A compound selected from:

- COMPOUND 1: 4-[[3-(anilinocarbonyl)phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
- COMPOUND 2: 4-[{3-[(benzylamino)carbonyl]phenyl}(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
- 5 COMPOUND 3: 4-[(3-{[(2-phenylethyl)amino]carbonyl}phenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
  - COMPOUND 4: 4-[{3-[(cyclopentylamino)carbonyl]phenyl}(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
  - COMPOUND 5: 4-[{3-[(cyclohexylamino)carbonyl]phenyl}(piperidin-4-
- 10 ylidene)methyl]benzoic acid:
  - COMPOUND 6: 4-[[3-(cyclohexylacetyl)phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
  - COMPOUND 7: 4-[(3-{[(2-chlorobenzyl)amino]carbonyl}phenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
- COMPOUND 8: 4-[(3-{[(2-fluorobenzyl)amino]carbonyl}phenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;

  COMPOUND 9: 4-[[3-({[(1R)-1-(4-methylphenyl)ethyl]amino}carbonyl)phenyl](piperidin-4-ylidene)methyl]-N,N
  - methylpnenyl)ethyl]amino}carbonyl)phenyl](piperidin-4-ylidene)methyl]-N,N diethylbenzamide;
- 20 COMPOUND 10: 4-[(3-{[(4-methyl-1,3-thiazol-2-yl)amino]carbonyl}phenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide; COMPOUND 11: 4-[(3-{[(2,6-dimethylpyridin-3-yl)amino]carbonyl}phenyl)(piperidin-4-ylidene)-N,N-diethylbenzamide; COMPOUND 12: 4-[{3-[(isobutylamino)carbonyl]phenyl}(piperidin-4-
- 25 ylidene)methyl]-N,N-diethylbenzamide;
  COMPOUND 13: 4-[(3-{[(1-ethylpropyl)amino]carbonyl}phenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide;
  COMPOUND 14: 4-[(3-{[methyl(2-phenylethyl)amino]carbonyl}phenyl)(piperidin-
- 30 COMPOUND 15: N,N-diethyl-4-[[3-(piperidin-1-ylcarbonyl)phenyl](piperidin-4-ylidene)methyl]benzamide;

4-ylidene)methyl]-N,N-diethylbenzamide;

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COMPOUND 16: N,N-diethyl-4-{piperidin-4-ylidene[3-(pyrrolidin-1-ylcarbonyl)phenyl]methyl}benzamide; and pharmaceutically acceptable salts thereof.

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